

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032495.D
 Acq On : 11 Sep 2018 2:00
 Operator : SY/AP
 Sample : J4820-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRYDL

Manual Integrations
 APPROVED

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 9/12/2018 3:59:46 PM

Quant Time: Sep 11 16:18:32 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1427316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3437396	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3428376	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2567788	10.09	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	39571	0.22	ppbv	92
4) Chloromethane	3.19	50	9704	0.12	ppbv	96
9) Propene	3.06	41	1369029	26.27	ppbv	95
11) Trichlorofluoromethane	4.04	101	84330	0.51	ppbv	99
13) Ethanol	3.69	45	191114	11.76	ppbv	98
15) Acetone	3.93	43	2537207m	19.74	ppbv	
20) Methylene Chloride	4.45	84	72255	1.47	ppbv	98
26) Hexane	5.82	57	88987	0.65	ppbv #	1
27) Carbon Disulfide	4.66	76	42768	0.34	ppbv #	52
29) Chloroform	5.89	83	418594	2.02	ppbv	94
34) 2-Butanone	5.36	43	14901156	65.26	ppbv	91
36) Benzene	7.05	78	138271m	0.47	ppbv	
42) Bromodichloromethane	7.97	83	27101	0.11	ppbv #	94
51) 2-Hexanone	10.31	43	2682585	12.11	ppbv #	99
52) Tetrachloroethene	11.43	164	11680m	0.13	ppbv	
53) Toluene	9.99	91	110520	0.36	ppbv	99
58) Ethyl Benzene	12.91	91	45256	0.11	ppbv	99
59) m/p-Xylene	13.17	91	122315m	0.33	ppbv	
60) o-Xylene	13.89	91	61154m	0.17	ppbv	
61) Styrene	13.72	104	56576m	0.24	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

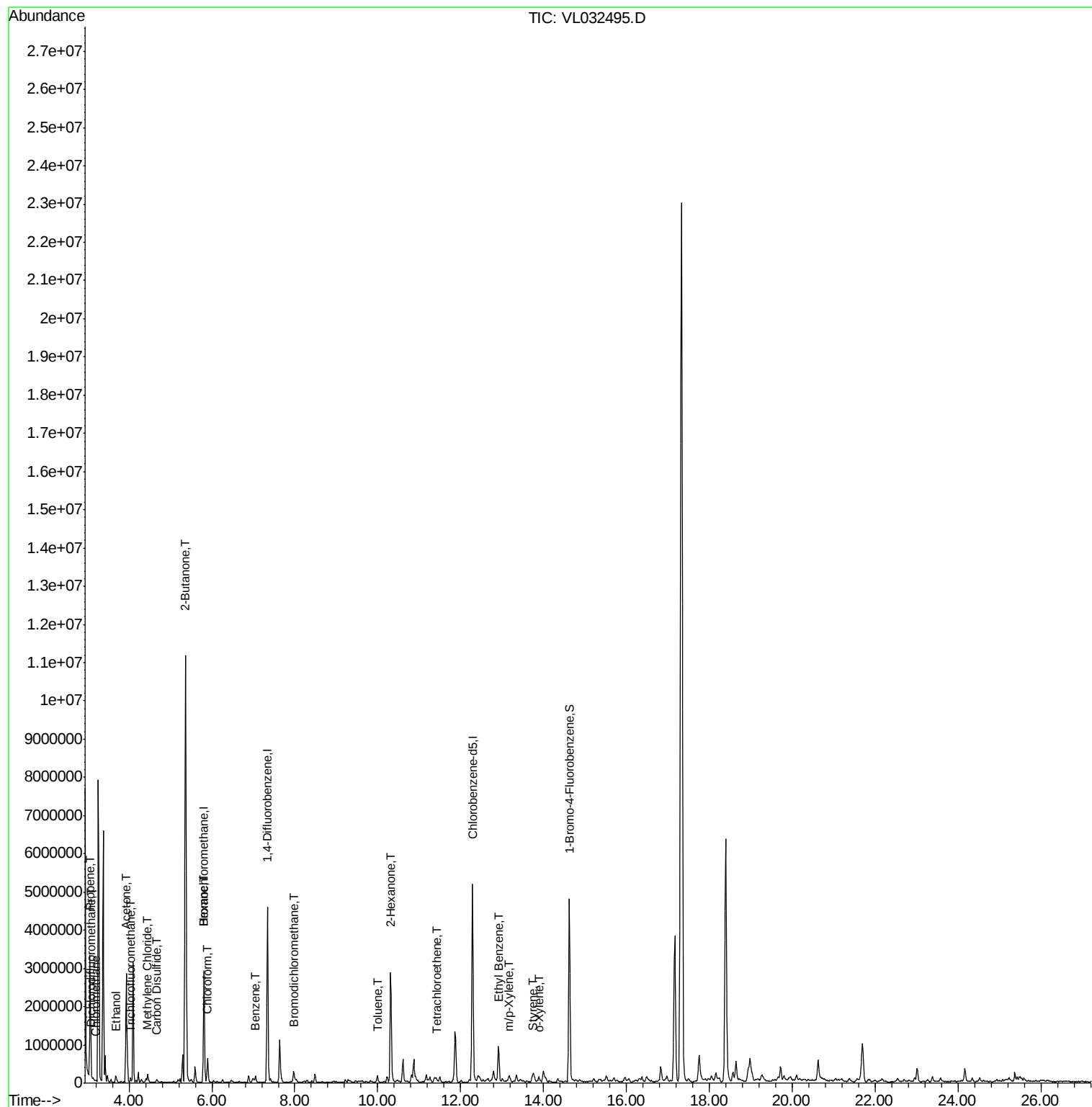
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032495.D
Acq On : 11 Sep 2018 2:00
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

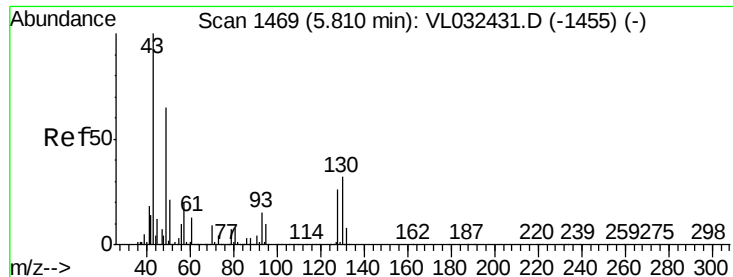
Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

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Quant Time: Sep 11 16:18:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
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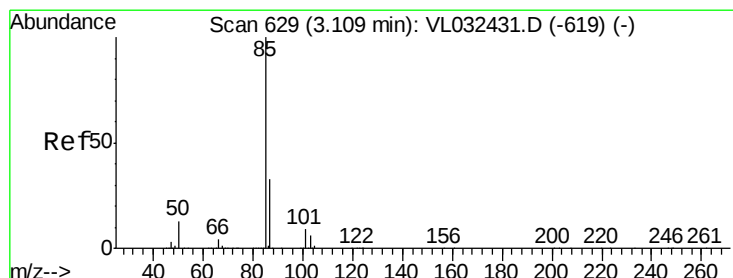
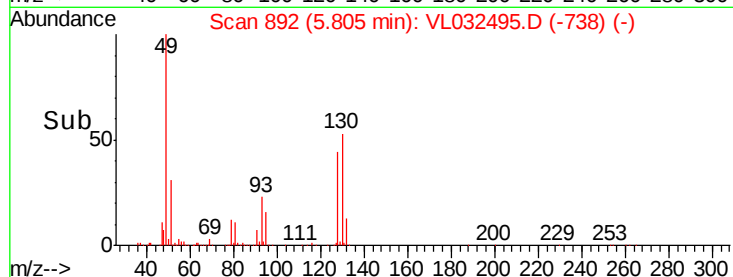
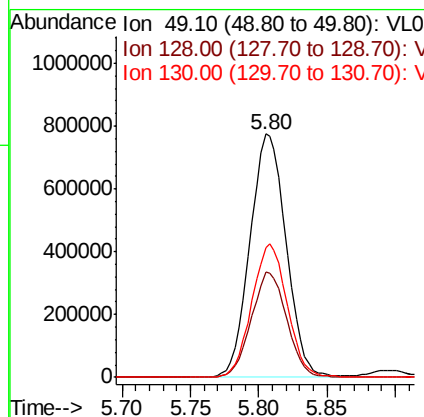
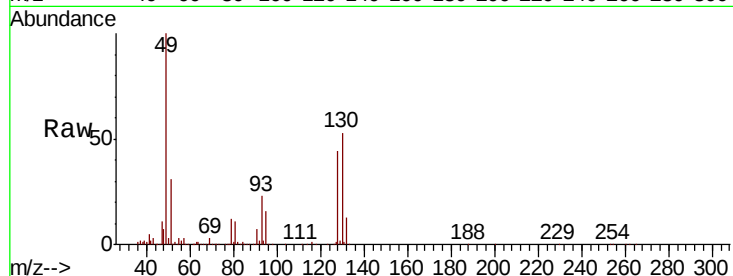
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VL032495.D
 Acq: 11 Sep 2018 2:00

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRYDL

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.5	20.7	62.1
130	54.0	26.6	79.7

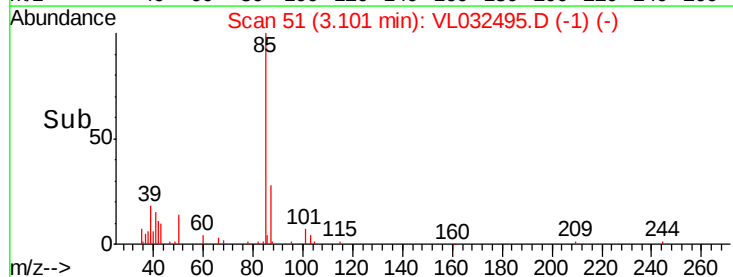
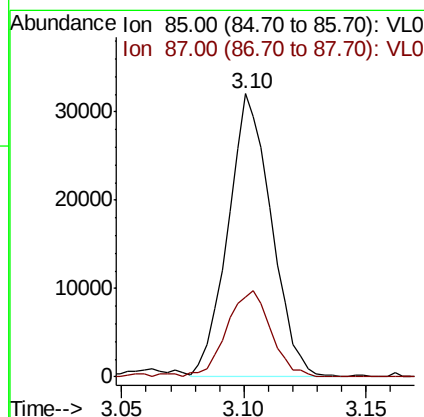
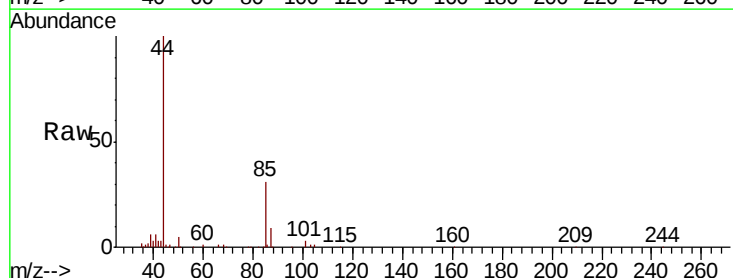
Manual Integrations
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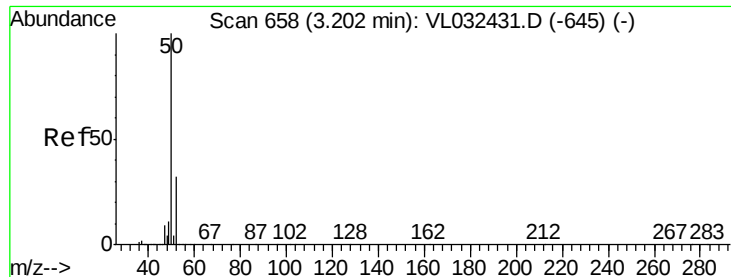
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#2
 Dichlorodifluoromethane
 Concen: 0.22 ppbv
 RT: 3.10 min Scan# 51
 Delta R.T. -0.01 min
 Lab File: VL032495.D
 Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.4	26.2	39.4





#4

Chloromethane

Concen: 0.12 ppbv

RT: 3.19 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

Instrument :

MSVOA_L

ClientSampleId :

249-BERRYDL

Tot Ion: 50 Resp: 9704

Ion Ratio Lower Upper

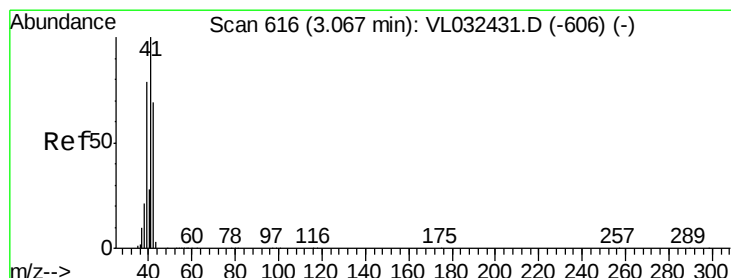
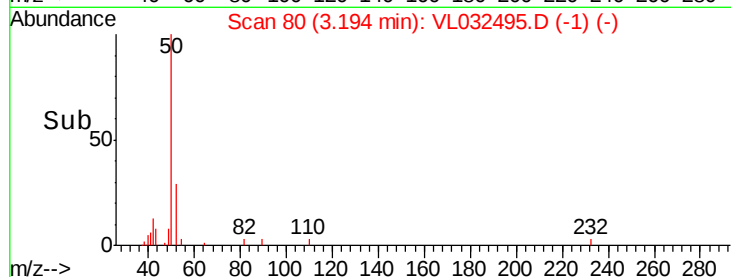
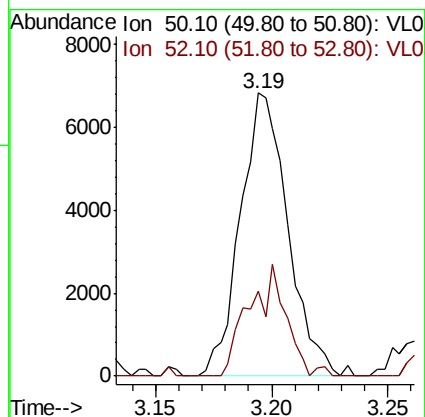
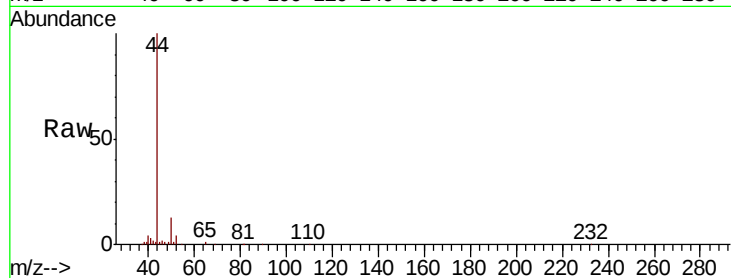
50 100

52 30.0 25.6 38.4

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#9

Propene

Concen: 26.27 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032495.D

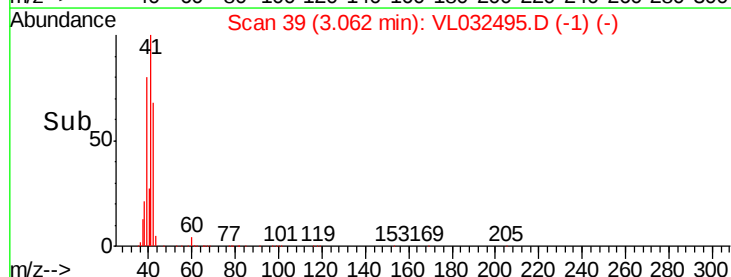
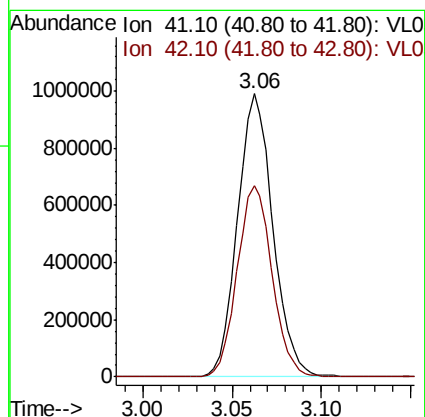
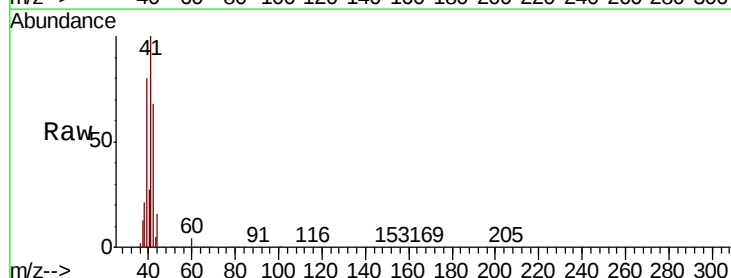
Acq: 11 Sep 2018 2:00

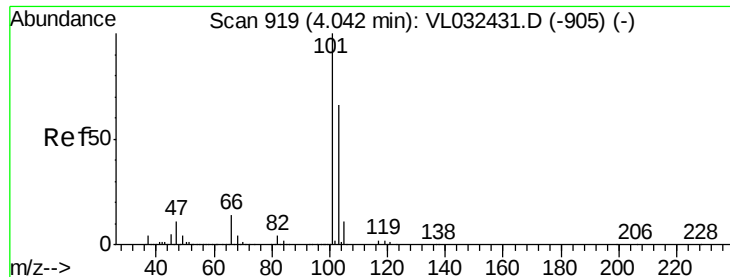
Tgt Ion: 41 Resp: 1369029

Ion Ratio Lower Upper

41 100

42 66.9 56.6 84.8





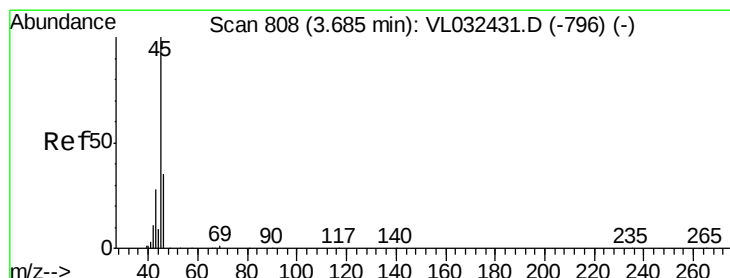
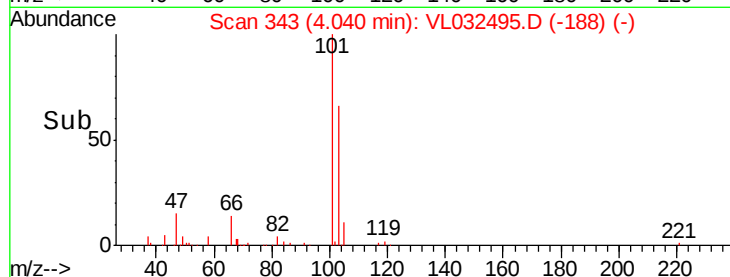
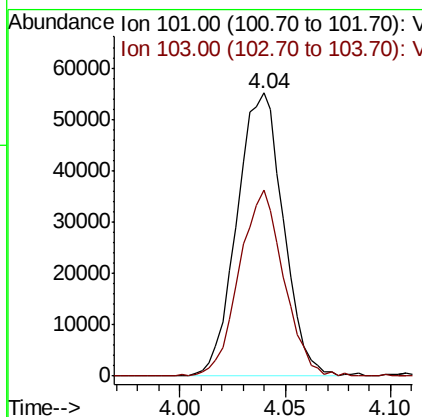
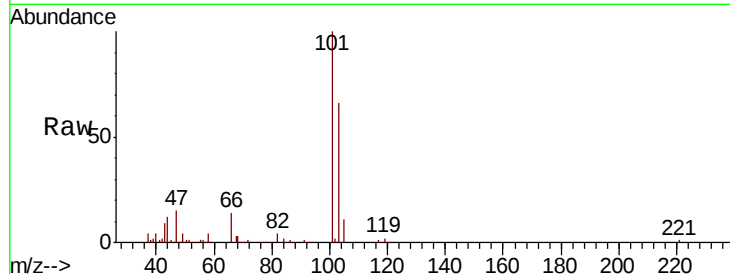
#11
 Trichlorofluoromethane
 Concen: 0.51 ppbv
 RT: 4.04 min Scan# 343
 Delta R.T. -0.00 min
 Lab File: VL032495.D
 Acq: 11 Sep 2018 2:00

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRYDL

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.8	79.2

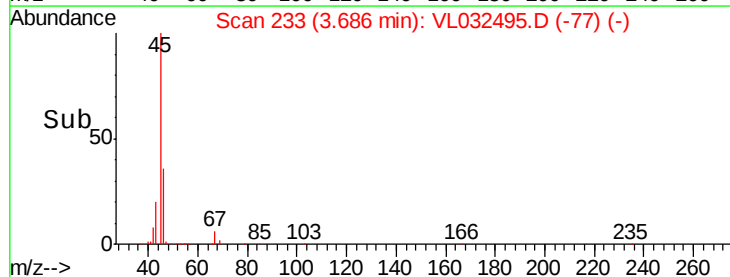
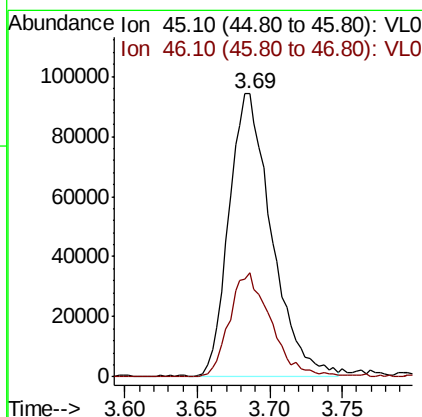
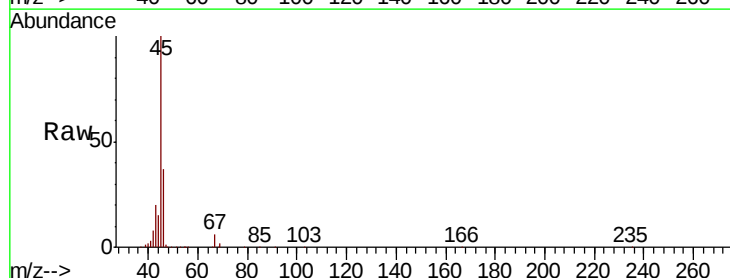
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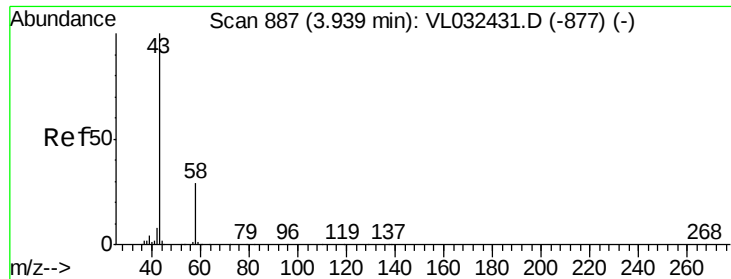
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#13
 Ethanol
 Concen: 11.76 ppbv
 RT: 3.69 min Scan# 233
 Delta R.T. 0.00 min
 Lab File: VL032495.D
 Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.4	14.2	56.8





#15

Acetone

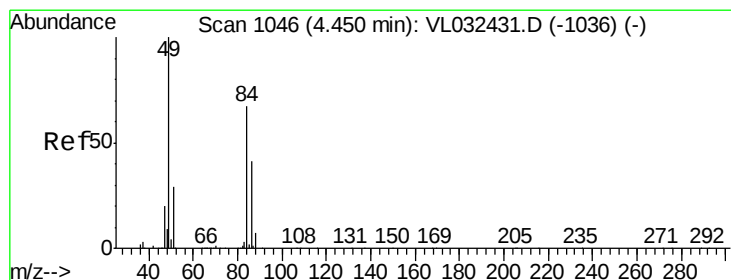
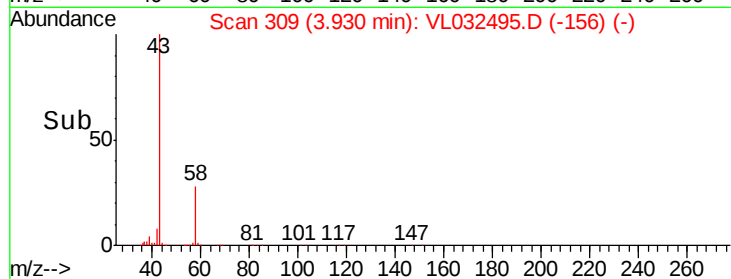
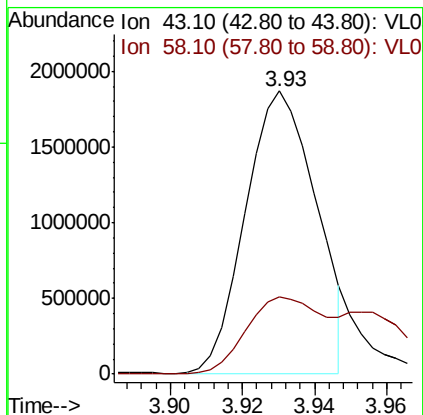
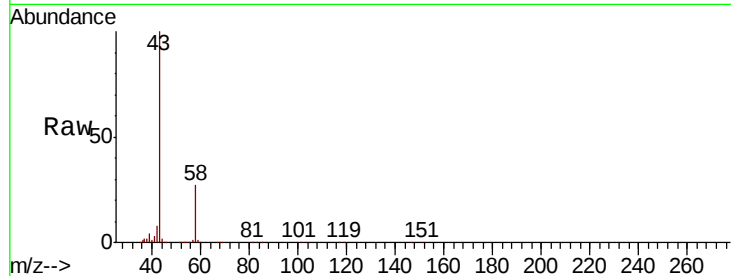
Concen: 19.74 ppbv m
RT: 3.93 min Scan# 309
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion: 43 Resp: 2537207
Ion Ratio Lower Upper
43 100
58 51.4 22.6 33.8#

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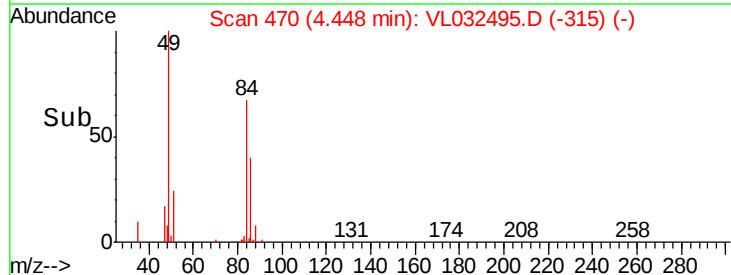
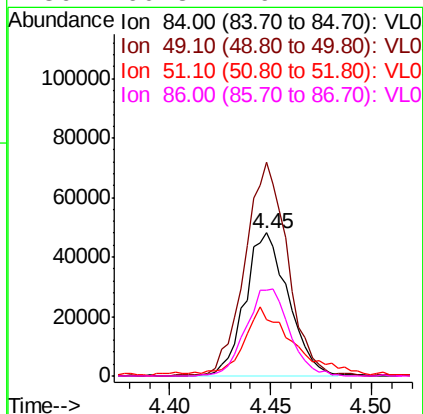
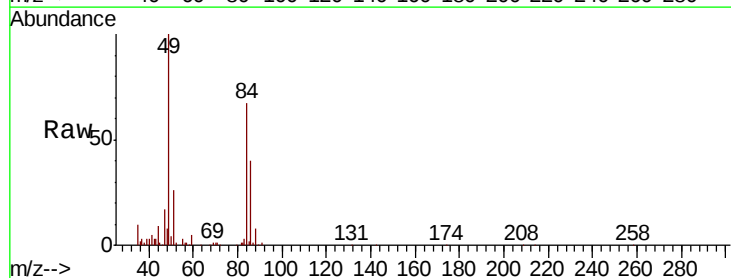


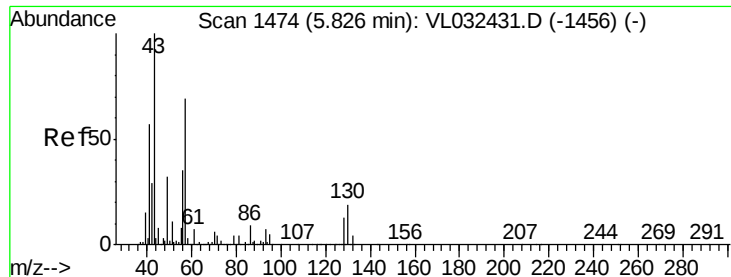
#20

Methylene Chloride

Concen: 1.47 ppbv
RT: 4.45 min Scan# 470
Delta R.T. -0.00 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion: 84 Resp: 72255
Ion Ratio Lower Upper
84 100
49 148.6 119.1 178.7
51 37.1 35.2 52.8
86 60.3 49.4 74.2





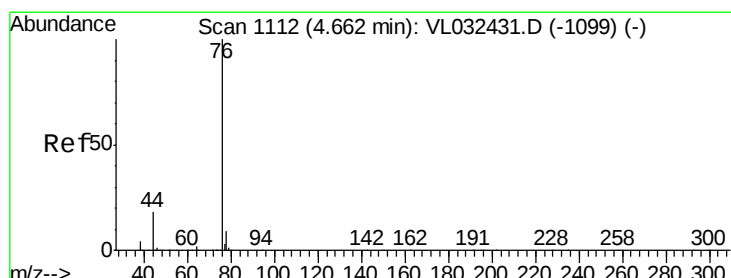
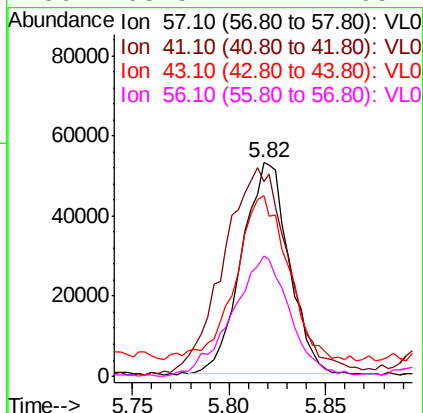
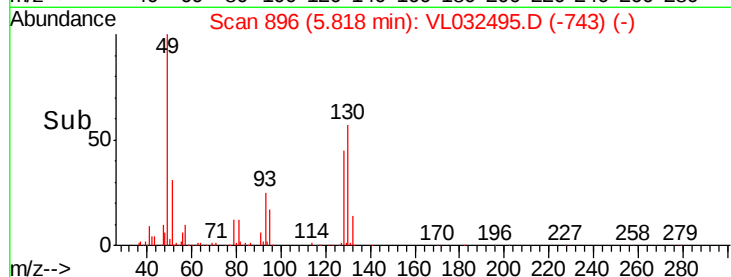
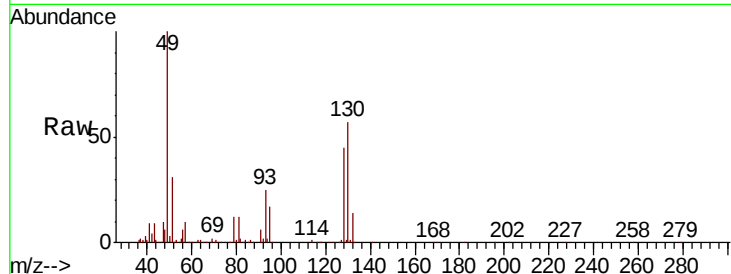
#26
Hexane
Concen: 0.65 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion	Ratio	Lower	Upper
57	100		
41	137.6	69.0	103.4#
43	0.0	172.1	258.1#
56	68.5	42.2	63.2#

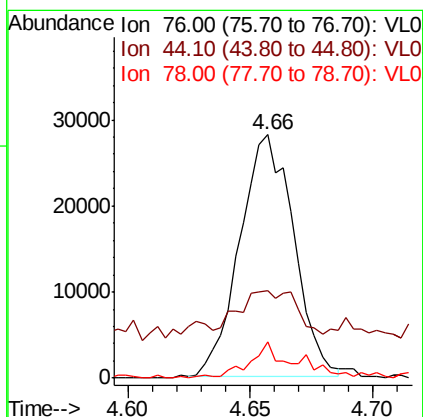
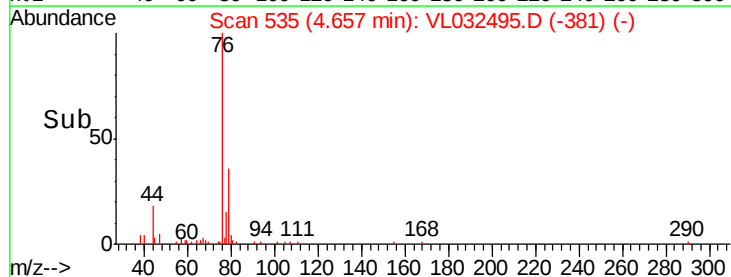
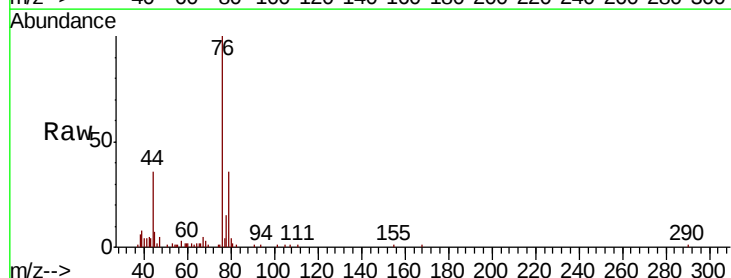
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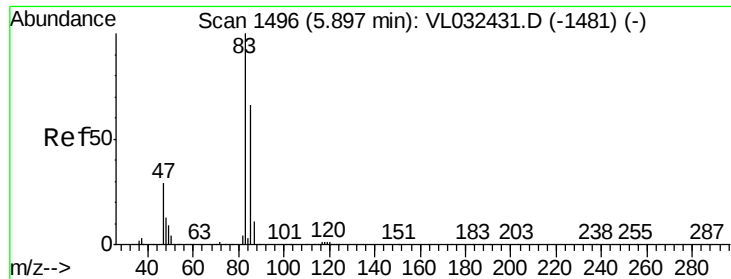
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#27
Carbon Disulfide
Concen: 0.34 ppbv
RT: 4.66 min Scan# 535
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
76	100		
44	46.6	14.0	21.0#
78	13.9	7.5	11.3#





#29

Chloroform

Concen: 2.02 ppbv

RT: 5.89 min Scan# 920

Delta R.T. -0.00 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

Instrument :

MSVOA_L

ClientSampleId :

249-BERRYDL

Tot Ion: 83 Resp: 418594

Ion Ratio Lower Upper

83 100

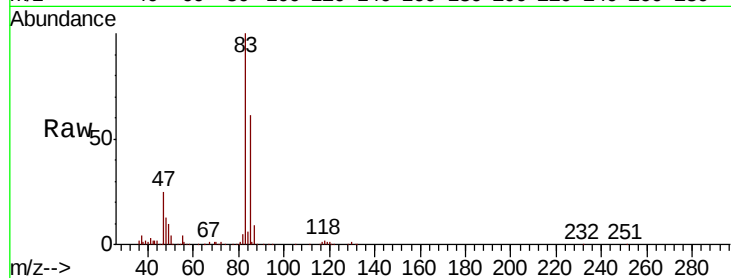
85 60.6 52.5 78.7

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.89

250000

200000

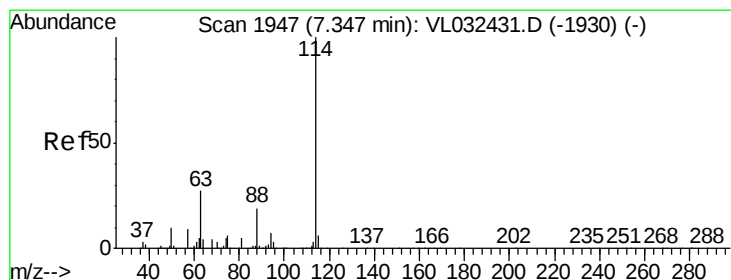
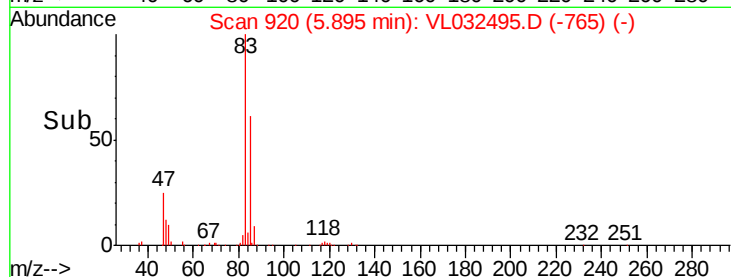
150000

100000

50000

0

Time--> 5.80 5.85 5.90 5.95



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.34 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

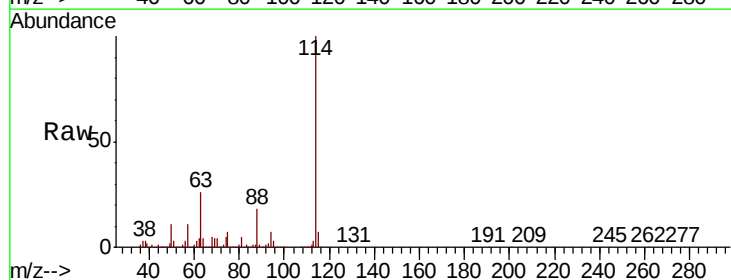
Tgt Ion: 114 Resp: 3437396

Ion Ratio Lower Upper

114 100

63 26.0 22.2 33.4

88 18.5 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

7.34

2000000

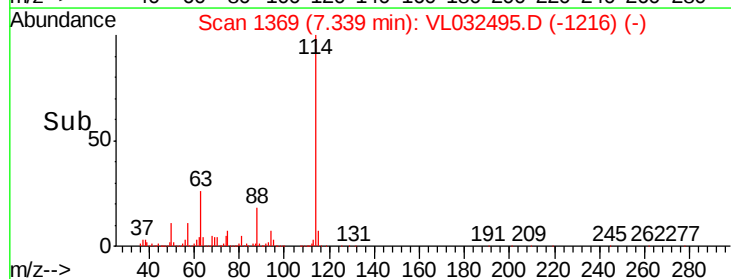
1500000

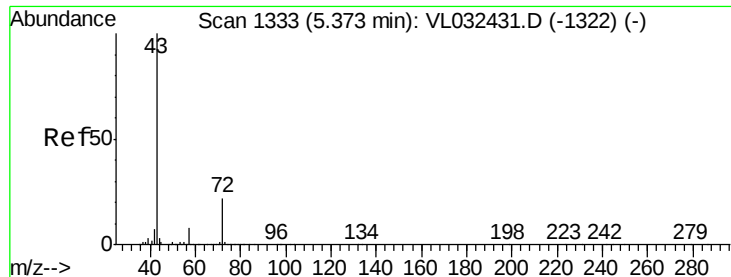
1000000

500000

0

Time--> 7.25 7.30 7.35 7.40 7.45





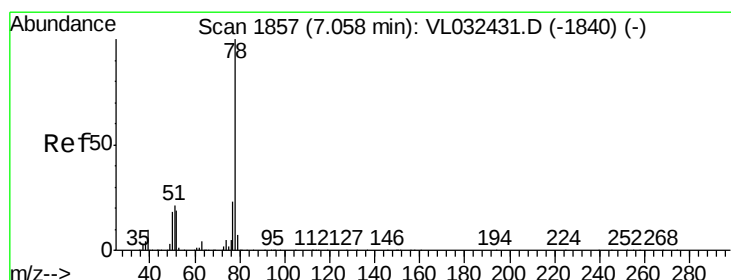
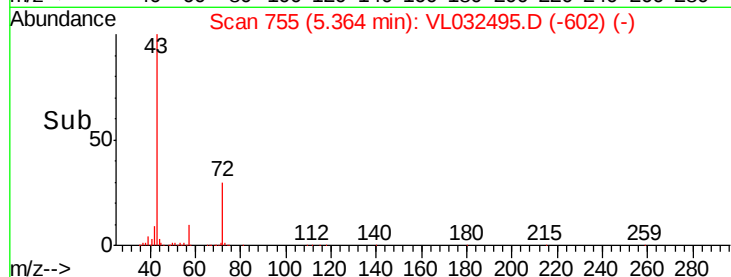
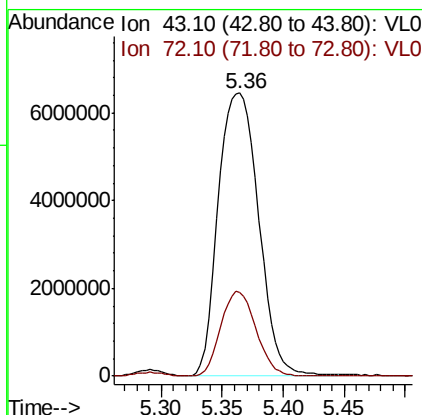
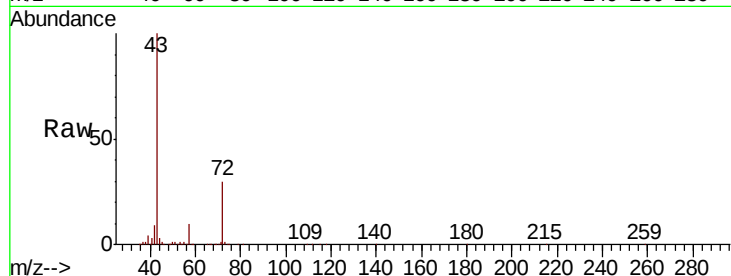
#34
2-Butanone
Concen: 65.26 ppbv
RT: 5.36 min Scan# 755
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion: 43 Resp: 14901156
Ion Ratio Lower Upper
43 100
72 26.4 17.8 26.6

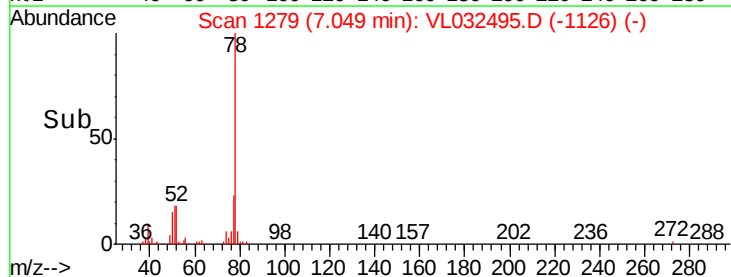
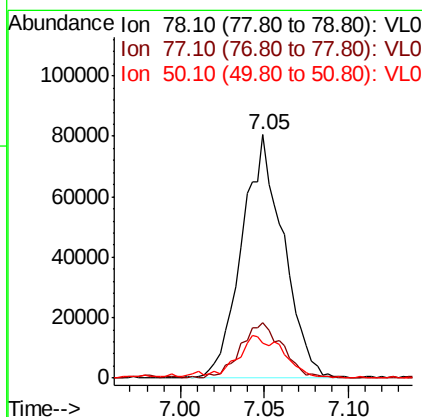
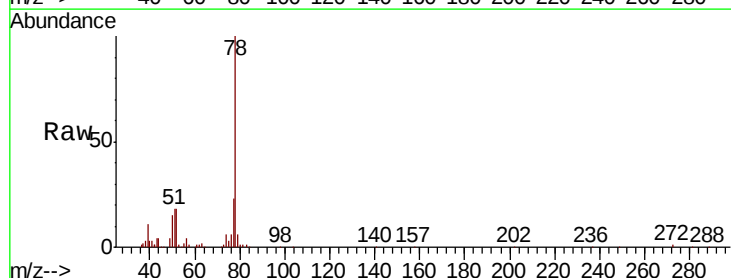
Manual Integrations
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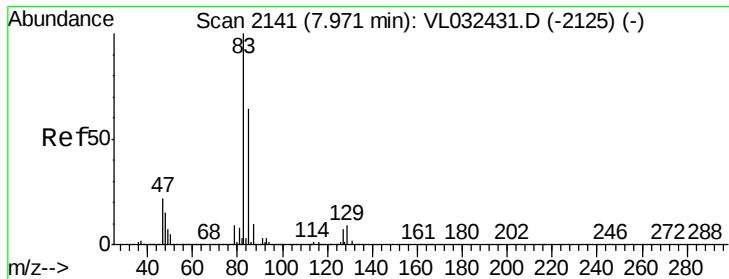
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#36
Benzene
Concen: 0.47 ppbv m
RT: 7.05 min Scan# 1279
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion: 78 Resp: 138271
Ion Ratio Lower Upper
78 100
77 22.6 18.4 27.6
50 14.5 14.4 21.6





#42

Bromodichloromethane

Concen: 0.11 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

Instrument :

MSVOA_L

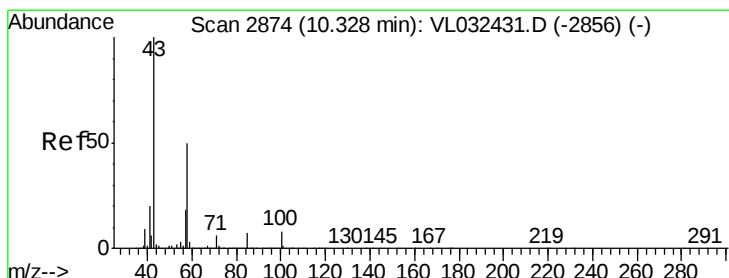
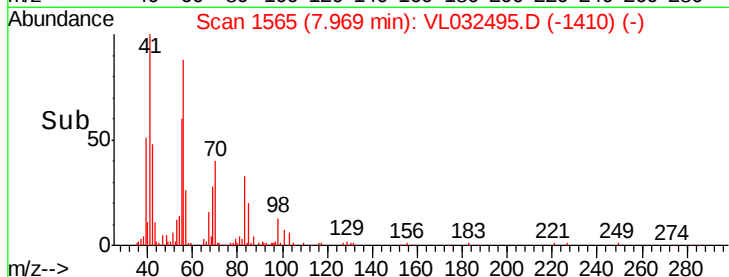
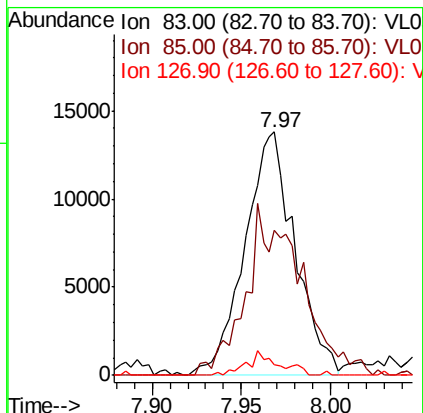
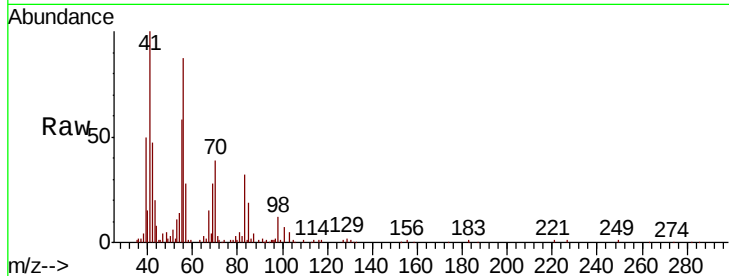
ClientSampleId :

249-BERRYDL

Tot Ion:	83	Resp:	27101
Ion Ratio	Lower	Upper	
83	100		
85	59.5	51.1	76.7
127	4.3	5.8	8.8#

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#51

2-Hexanone

Concen: 12.11 ppbv

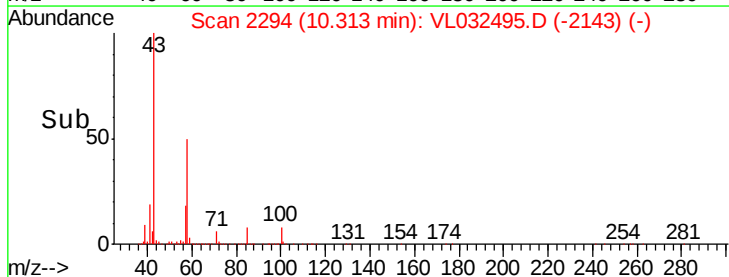
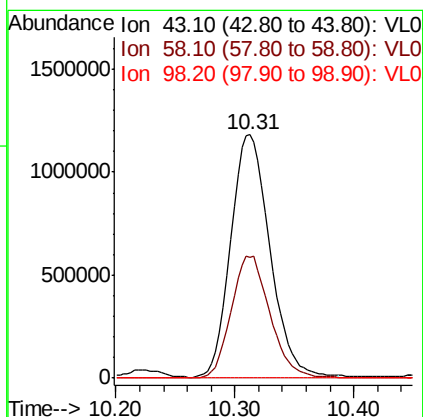
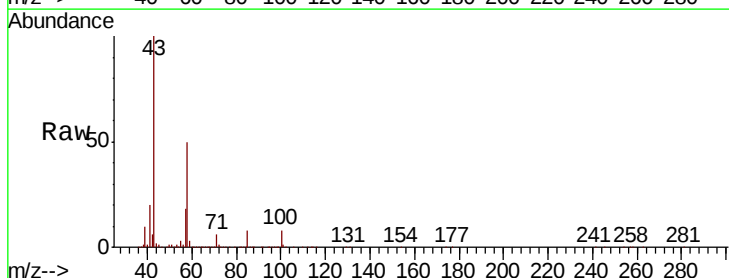
RT: 10.31 min Scan# 2294

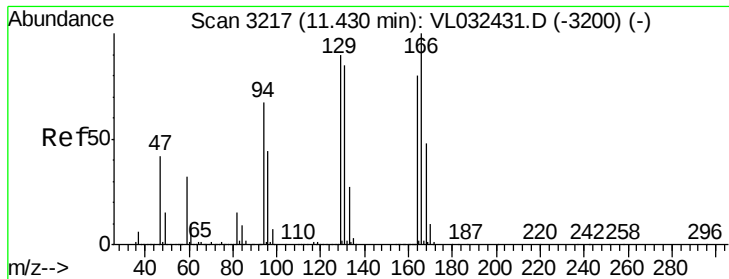
Delta R.T. -0.01 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

Tgt Ion:	43	Resp:	2682585
Ion Ratio	Lower	Upper	
43	100		
58	49.9	39.2	58.8
98	0.2	0.4	0.6#





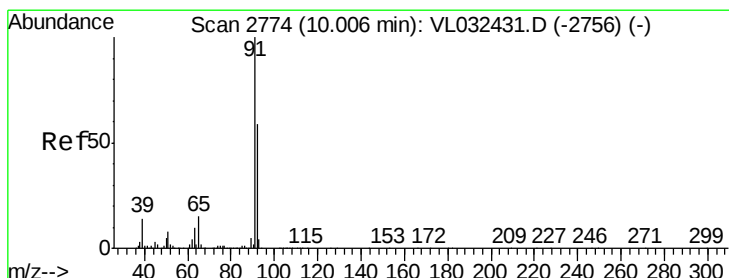
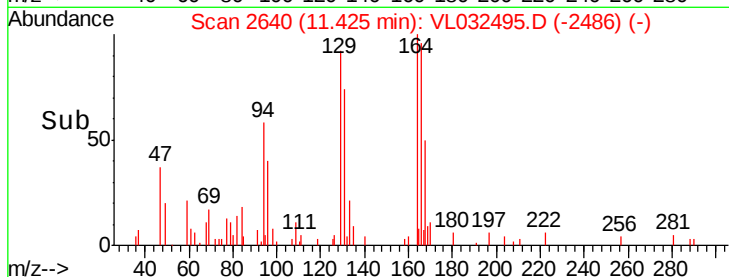
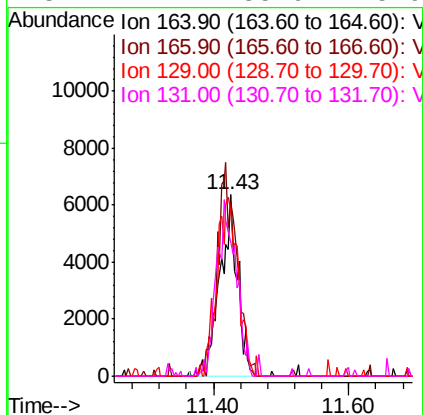
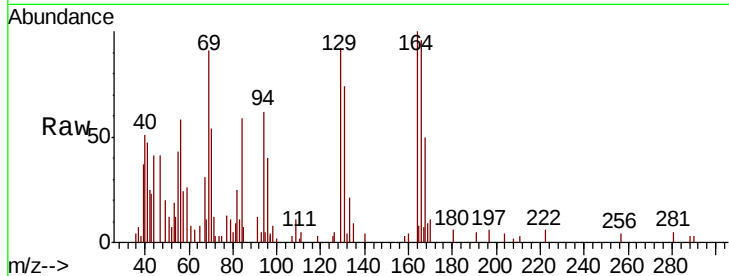
#52
Tetrachloroethene
Concen: 0.13 ppbv m
RT: 11.43 min Scan# 2640
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion	Ratio	Lower	Upper
164	100		
166	95.8	100.6	150.8#
129	92.2	89.9	134.9
131	74.1	85.9	128.9#

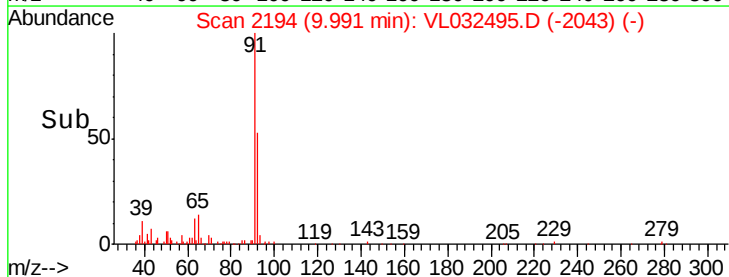
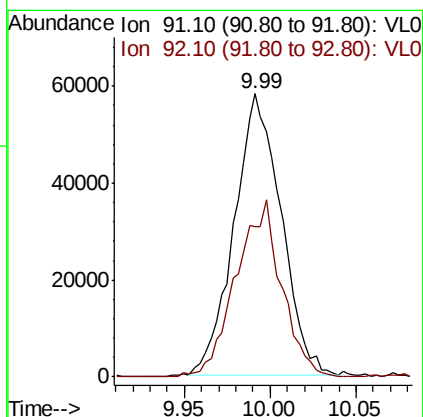
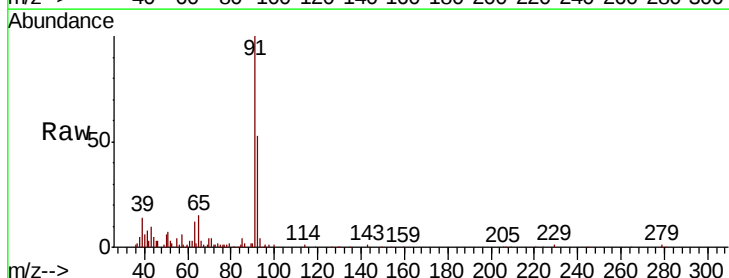
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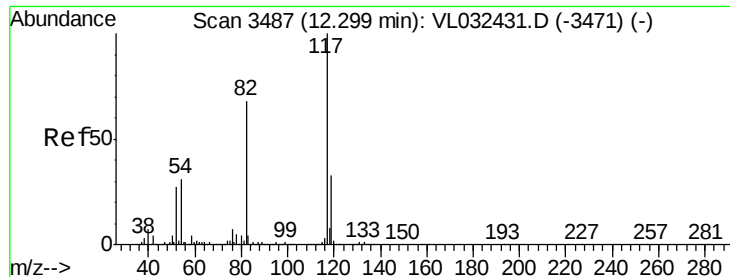
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#53
Toluene
Concen: 0.36 ppbv
RT: 9.99 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.1	72.1





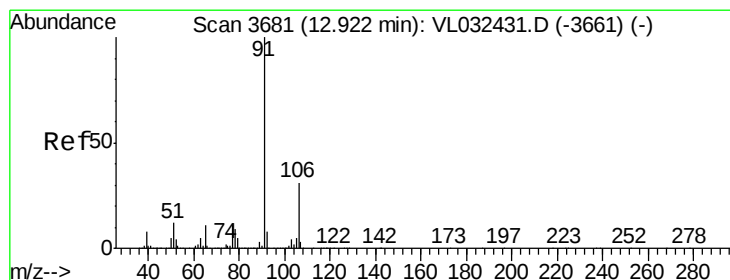
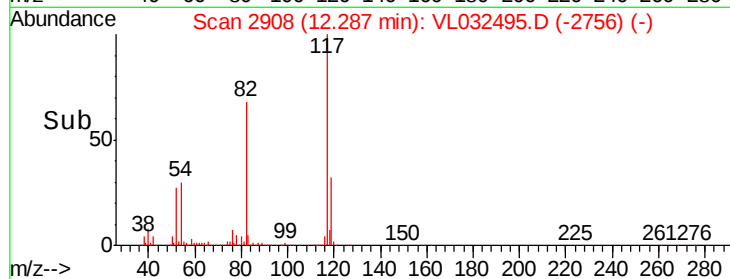
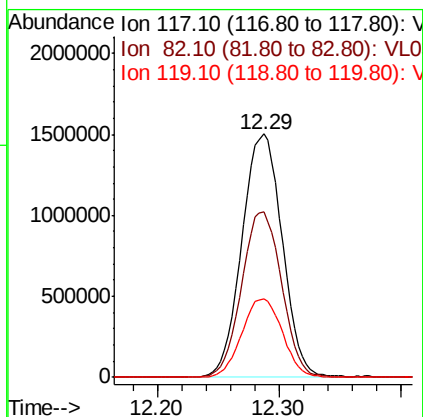
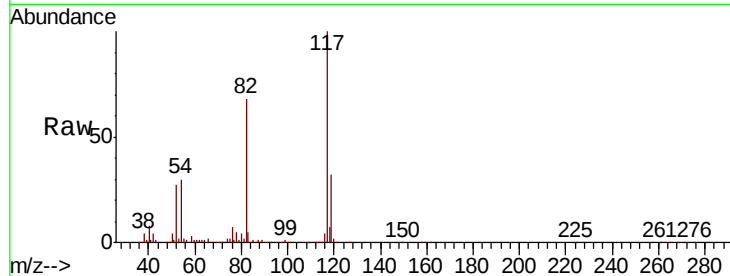
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.0	53.0	79.6
119	32.6	45.9	68.9#

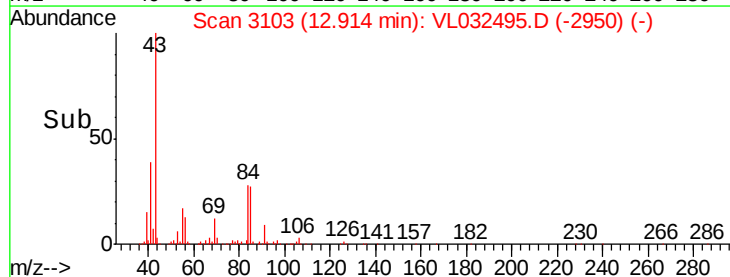
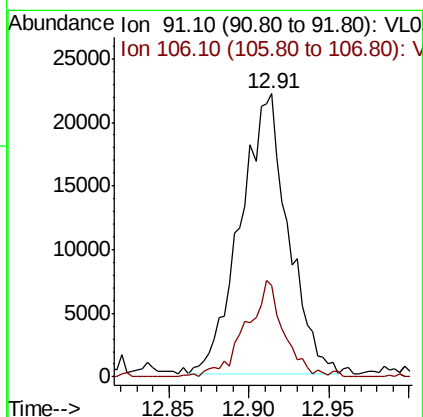
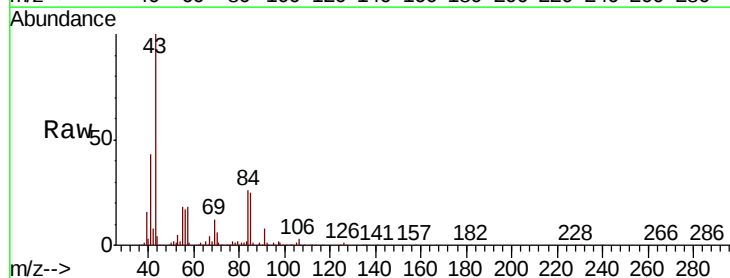
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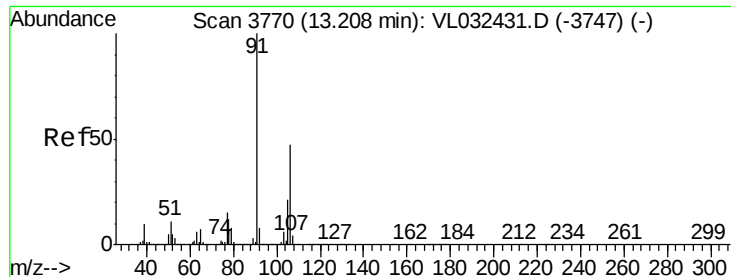
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#58
Ethyl Benzene
Concen: 0.11 ppbv
RT: 12.91 min Scan# 3103
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.8	37.2





#59

m/p-Xylene

Concen: 0.33 ppbv m

RT: 13.17 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VL032495.D

Acq: 11 Sep 2018 2:00

Instrument :

MSVOA_L

ClientSampleId :

249-BERRYDL

Tot Ion: 91 Resp: 122315

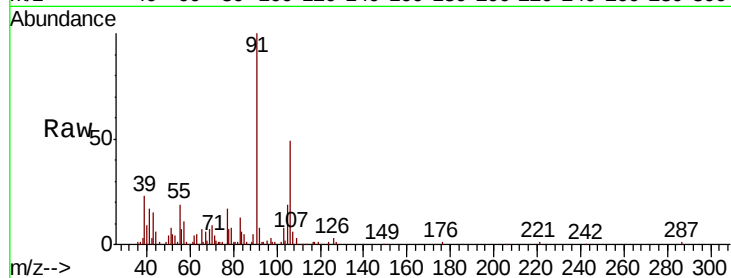
Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#

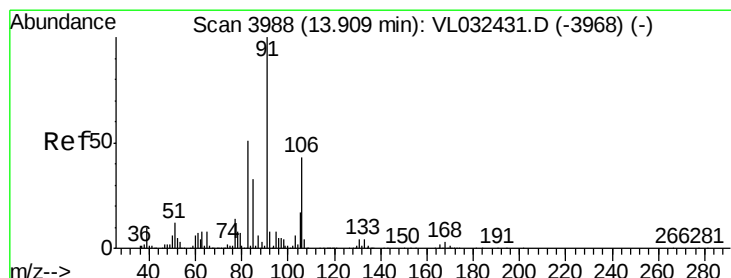
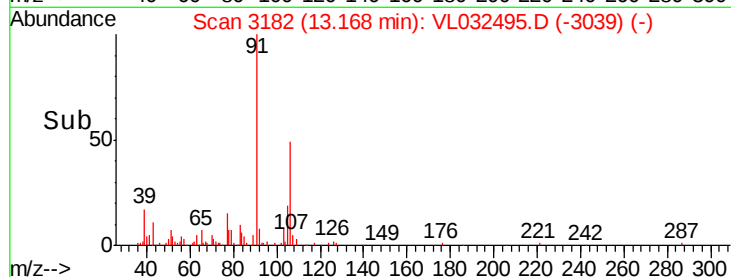
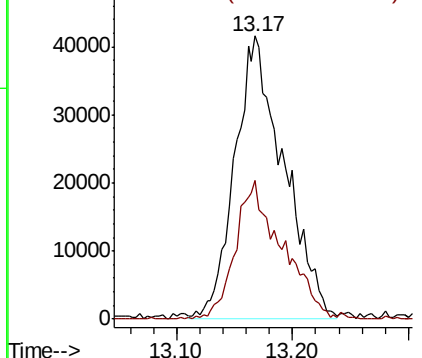
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.17 ppbv m

RT: 13.89 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL032495.D

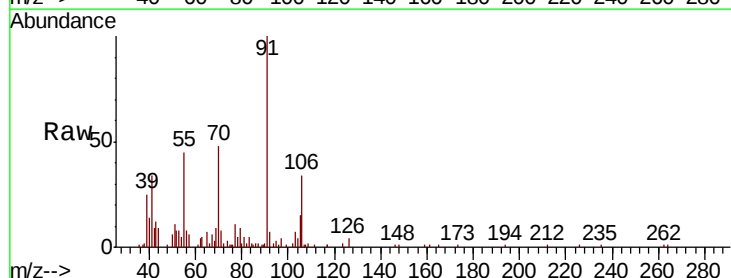
Acq: 11 Sep 2018 2:00

Tgt Ion: 91 Resp: 61154

Ion Ratio Lower Upper

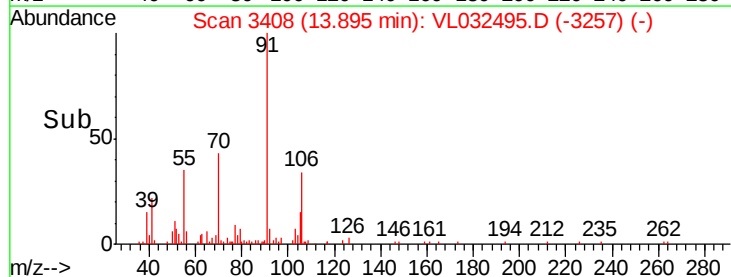
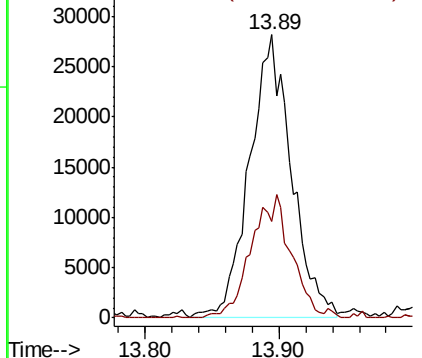
91 100

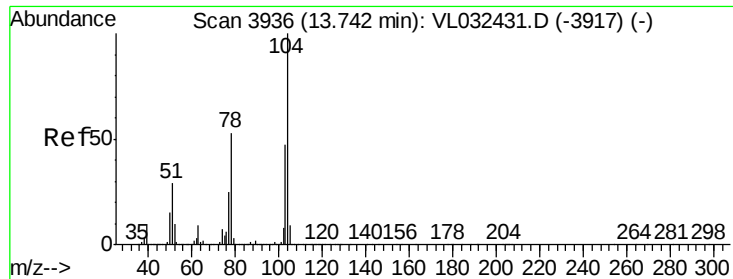
106 0.0 21.9 65.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





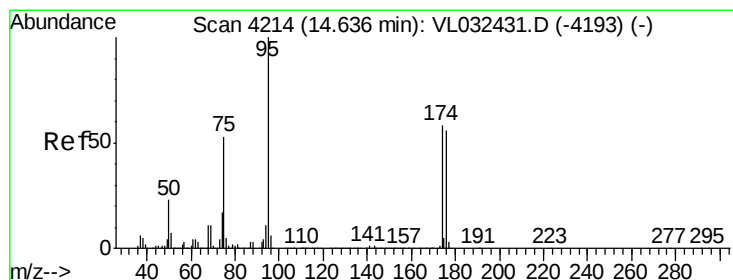
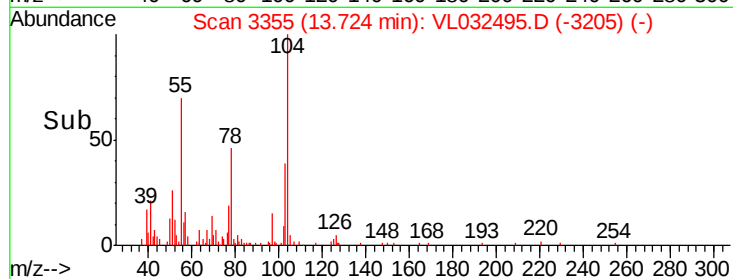
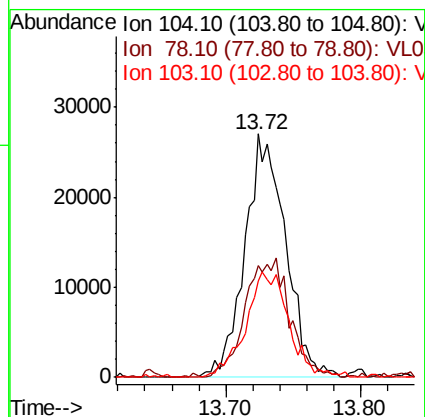
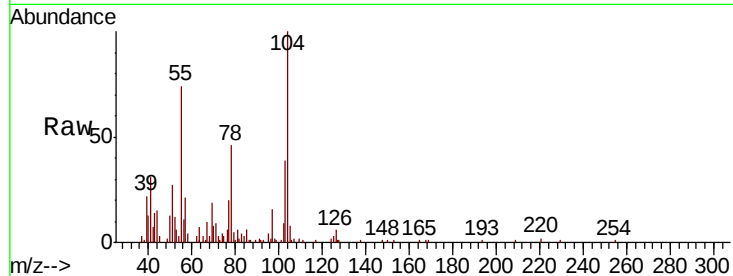
#61
Stvrene
Concen: 0.24 ppbv m
RT: 13.72 min Scan# 3355
Delta R.T. -0.02 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.6	41.8	62.8
103	46.2	38.0	57.0

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.09 ppbv
RT: 14.62 min Scan# 3635
Delta R.T. -0.01 min
Lab File: VL032495.D
Acq: 11 Sep 2018 2:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.9	46.3	69.5
175	4.4	3.4	5.0

